WHAT IS CLAIMED IS:

- 1. A plasmid capable of expressing a heterologous protein in a plant that encodes bovine lysozyme.
 - 2. The plasmid of claim 1 comprising SEQ ID NO:1.
 - 3. The plasmid of claim 1 or 2 having the sequence SEQ ID NO:3.

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- 4. The plasmid of claim 3 identified as ATCC Dep. No. PTA-2599.
- 5. A recombinant RNA plant virus comprising a nucleotide sequence encoding bovine lysozyme.

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- 6. The plant virus of claim 5 comprising SEQ ID NO:1.
- 7. An RNA molecule comprising:
 - (a) a first viral subgenomic promoter;

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- (b) a second viral subgenomic promoter; and
- (c) a bovine lysozyme coding sequence under control of either the first or the second subgenomic promoter.
- 8. The RNA molecule of claim 7 wherein the coding sequence is SEQ ID NO:1.
- 9. A recombinant tobamovirus comprising a nucleotide sequence encoding bovine lysozyme.
- 30 10. The tobamovirus of claim 9 wherein the lysozyme coding sequence is SEQ ID NO:1.

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- 11. A method of producing bovine lysozyme, comprising:
 - (a) infecting a host plant with an RNA plant virus comprising a nucleotide sequence encoding bovine lysozyme;
 - (b) allowing the virus to infect the plant systemically;
 - (c) harvesting plant material; and
- (d) isolating from said harvested plant material bovine lysozyme, thereby producing said bovine lysozyme.